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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,275	09/08/2003	Rong-Fung Huang	HUAN3210/EM	7141
23364	7590	05/03/2005	EXAMINER	
BACON & THOMAS, PLLC 625 SLATERS LANE FOURTH FLOOR ALEXANDRIA, VA 22314			MCKINNON, TERRELL L	
			ART UNIT	PAPER NUMBER
			3743	

DATE MAILED: 05/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/656,275	HUANG ET AL.
	Examiner	Art Unit
	Terrell L Mckinnon	3743

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 08 September 2003.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-8 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) Claim(s) _____ is/are allowed.
6) Claim(s) 1-8 is/are rejected.
7) Claim(s) _____ is/are objected to.
8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 08 September 2003 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ .
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Li et al. (U.S. 6,148,906).

Li discloses a flat plate heat pipe comprising all of the applicant's claimed and disclosed limitations of the instant invention.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li et al. (U.S. 6,148,906) in view of Pai (U.S. 5,785,088).

Li's invention discloses all of the claimed limitations from above except for strip members arranged in the bottom area the base are integrally formed in the bottom area in the form of strips with arrow and spearhead shaped sections.

5. However, Pai teaches a plurality of longitudinally extending strips within a heat pipe container comprising different shapes.

Given the teachings of Pai, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the flat plate heat pipe of Li with strip members arranged in the bottom area the base are integrally formed in the bottom area in the form of strips with arrow and spearhead shaped sections.

Doing so would provide alternate heat dissipating structures for enhancing heat dissipations.

6. Claims 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li et al. (U.S. 6,148,906) in view of Pai (U.S. 5,785,088) as applied to claims above, and further in view of Carlsten et al. (U.S. 5,283,715).

Li's invention, as modified by Pai, discloses all of the claimed limitations from above except for recesses are provided at the positions along the strip members arranged in the bottom area of the base to form function of positioning for the strip members; recesses are provided between the positions of the strip members arranged in the bottom area of the base to increase action of guiding flow of the liquid; and the lid of the heat conductive seat is integrally formed with the heat sink in order that the heat conductive seat and the heat sink are combined structurally.

7. However, Carlsten teaches recesses provided at the positions along the strip members (20) arranged in the bottom area of the base to form function of positioning for the strip members; recesses are provided between the positions of the strip members arranged in the bottom area of the base to increase action of guiding flow of the liquid;

and the lid of the heat conductive seat is integrally formed with the heat sink in order that the heat conductive seat and the heat sink are combined structurally.

Given the teachings of Carlsten, it would have been obvious to one of ordinary skill in the art at the time of the invention to further modify the flat heat pipe of Li with recesses are provided at the positions along the strip members arranged in the bottom area of the base to form function of positioning for the strip members; recesses are provided between the positions of the strip members arranged in the bottom area of the base to increase action of guiding flow of the liquid; and the lid of the heat conductive seat is integrally formed with the heat sink in order that the heat conductive seat and the heat sink are combined structurally.

Doing so would provide a reliable and thermally improved flat heat pipe structure.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following references cited on the USPTO 892 discloses related limitations of the applicant's claimed and disclosed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terrell L Mckinnon whose telephone number is 571-272-4797. The examiner can normally be reached on Monday -Thursday and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennett can be reached on 571-272-4791. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Terrell L. McKinnon
Primary Examiner
Art Unit 3743
May 2, 2005